

CLAIMS

[1] An electromagnetic fuel injection valve comprising a valve member (20) which is contained in a valve housing (8) having a valve seat (13) at a front end thereof and is spring-biased in a direction in which said valve member (20) is seated on said valve seat (13), a cylindrical movable core (18) having a movable attraction face (41) at a rear end thereof and coaxially connected to said valve member (20), a stationary core (22) having at a front end thereof a stationary attraction face (42) opposed to said movable attraction face (41), and a coil assembly (24) for exhibiting an electromagnetic force for attracting said movable core (18) toward said stationary core (22), so that the contact of said movable attraction face (41) with said stationary attraction face (42) is inhibited, characterized in that a ring-shaped stopper (28) made of a material non-magnetic or magnetic weakly more than said movable core (18) is press-fitted into an inner periphery of the rear portion of said movable core (18); a flat abutment face (51), which is disposed at a location displaced from the flat movable attraction face (41) formed at the rear end of said movable core (18) toward the stationary attraction face (42), is formed at a rear end of said stopper (28) to be able to abut against said stationary attraction face (42); and a slant (52) is formed on an inner periphery of the rear end of said movable core (18) and an outer periphery of the rear end of said stopper (28) to continuously and smoothly connect said movable attraction face (41) and said

abutment face (51) to each other.

[2] A process for producing an electromagnetic fuel injection valve according to claim 1, comprising a step of preparing a cylindrical movable core blank (18') and a ring-shaped stopper blank (28') for forming said movable core (18) and said stopper (28), respectively; a step of press-fitting a front portion of said stopper blank (28') into said movable core blank (18') and fixing said stopper blank (28') to said movable core blank (18'); and a step of grinding rear portions of said stopper blank (28') and said movable core blank (18') to form said movable attraction face (41), said abutment face (51) and said slant (52), the above steps being carried out sequentially.